ENVIRONMENTAL CHEMISTS

Date of Report: 03/09/00 Date Received: 02/25/00

Project: Metro Self Monitor, PO #M63623

Date Extracted: 02/28/00 Date Analyzed: 02/29/00

RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE FOR TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Results Reported as mg/L (ppm)

Sample ID		Chromium	Copper	<u>Nickle</u>	Zinc
Laboratory ID					
M63623		0.17	0.10	0.15	< 0.05
002139-01					
Method Blan	\mathbf{k}	< 0.05	< 0.05	< 0.05	< 0.05

ENVIRONMENTAL CHEMISTS

Date of Report: 03/09/00 Date Received: 02/25/00

Project: Metro Self Monitor, PO #M63623

QUALITY ASSURANCE RESULTS FOR TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Laboratory Code: 002139-01 (Duplicate)

				Relative	
	Reporting	Sample	Duplicate	Percent	Acceptance
Analyte	Units	Result	Result	Difference	Criteria
Chromium	mg/L (ppm)	0.17	0.17	0	0-20
Copper	mg/L (ppm)	0.10	0.12	18	0-20
Nickel	mg/L (ppm)	0.15	0.14	7	0-20
Zinc	mg/L (ppm)	< 0.05	< 0.05	nm	0-20

Laboratory Code: 002139-01 (Matrix Spike)

	Reporting	Spike	Sample	% Recover	ry % Recove	ry Acceptance		
Analyte	Units	Level	Result	MS	MSD	Criteria	RPD	
Chromium	mg/L (ppm)	5	0.17	85	85	80-120	0	
Copper	mg/L (ppm)	5	0.10	83	79 vo	80-120	5	
Nickel	mg/L (ppm)	10	0.15	84	87	80-120	4	
Zinc	mg/L (ppm)	5	< 0.05	87	91	80-120	4	

Laboratory Code: Laboratory Control Sample

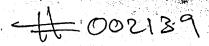
		Reporting	Spike	% Recove	ry % Recov	ery Acceptance	e (18. 1984)	
Ana	lyte	Units	Level	LCS	LCSE) Criteria	RPD	24.4
Chr	omium	mg/L (ppm)	5	93	94	80-120	1	
Cop	per	mg/L (ppm)	5	89	90	80-120	1	
Nic.	kel	mg/L (ppm)	10	94	94	80-120	0	
Zin		mg/L (ppm)	5	97	97	80-120	0	

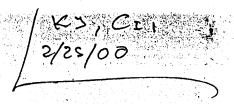
nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

vo - The value reported fell outside the control limits established for this analyte.

FRIEDMAN & BRUYA, INC. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282

FORMS/COC





SAMPLE CHAIN OF CUSTODY

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ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Jensen, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

March 9, 2000

DUPLICATE COPY

INVOICE #00ACU0309-5

Accounts Payable Alaskan Copper Works 628 South Hanford Seattle, WA 98134

RE: Project Metro Self Monitor, PO #M63623 - Results of testing requested by Gerry Thompson for material submitted on February 25, 2000.

FEDERAL TAX ID (b) (6)

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Jensen, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

March 9, 2000

Gerry Thompson, Project Manager Alaskan Copper Works 628 South Hanford Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on February 25, 2000 from your Metro Self Monitor, PO #M63623 project. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Dianall-Shut

Dianne C. Hurt Project Manager

Enclosures ACU0309R.DOC